

Specifications

PHYSICAL CHARACTERISTICS

DIMENSIONS	15.7 x 8.1 x 4.2 cm / 6.18 x 3.18 x 1.65 in
WEIGHT	415.0 to 440.0 g / 14.6 to 15.5 oz, depending on model (includes battery)
DISPLAY	Reflective TFT daylight readable color display, allowing both resolution 320 x 240 pixels (Windows CE Models) and 640 x 480 (WEHH Models), 8.9 cm / 3.5 in diagonal, 65K colors, backlight, touch screen
KEYBOARD	27-key Numeric or 46-key QWERTY backlit keyboard standard. Side scan keys, push to talk and volume setting
READING INDICATORS	Vibrator, LEDs and Green Spot
OPERATING TEMPERATURE	-10 to 50 °C / -14 to 122 °F
STORAGE TEMPERATURE	-20 to 70 °C / -4 to 158 °F
DROP RESISTANCE	Withstands drops from 1.5 m / 5 ft onto concrete
ENVIRONMENTAL SEALING	IP64 standard for water and dust resistance

SYSTEM

OPERATING SYSTEM	CE 6.0 or WEHH 6.5 with Mobile tools: Outlook, Word Mobile, Excel Mobile, PowerPoint Mobile, One Note Mobile and Internet Explorer Mobile 6.0
MICROPROCESSOR	XScale™ PXA310 @ 624 MHz
COPROCESSOR	ARM-7 32 bit 72 MHz
SYSTEM RAM MEMORY	256 MB
SYSTEM FLASH MEMORY	256 MB (including Backup directory for user data & program permanent storage)
EXPANSION SLOTS	Micro SD card slot compatible with SDHC cards, user-accessible
REAL-TIME CLOCK	Time and date stamping under software control
POWER SUPPLY	Removable battery pack with rechargeable Li-ion batteries; 3.7 V 3000/5000 mAh (11.10/18.50 Watt hours)

COMMUNICATIONS

INTERFACES	Electrical: integrated RS-232 up to 115.2 Kbps USB: integrated micro USB connector, Host 1.1 and Client 2.0, also for supplying power
WIDE AREA NETWORK (WAN)	UMTS HSDPA 850 1900 2100 - GSM/GPRS/EDGE 850 900 1800 1900 MHz for voice and data communication SIM socket under the battery
LOCAL AREA NETWORK (LAN)	Summit IEEE 802.11 a/b/g Frequency range: Country dependent, typically 2.4 - 5 GHz CCX v4 Security
PERSONAL AREA NETWORK (PAN)	Bluetooth® Wireless Technology IEEE 802.15 Class 2.0 with EDR
GLOBAL POSITION SYSTEM (GPS)	Assisted GPS (A-GPS) with Skyhook's Core Engine hybrid positioning system

READING OPTIONS

LASER CHARACTERISTICS

SCANNING RATE	104 +/-12 scan/sec
MINIMUM RESOLUTION	0.10 mm / 4 mils
DEPTH OF FIELD	5 to 64 cm / 2 to 25 in, depending on bar code density
BAR CODES	GS1 DataBar™, EAN/UPC, Code 39, 2/5 Codes, Plessey, Codabar, Code 128, EAN128, MSI, Code 93, Code 11
LASER CLASSIFICATION	VLD - Class 2/II EN 60825-1/CDHR

IMAGER CHARACTERISTICS

SCANNING RATE	60 frames/sec maximum
MINIMUM RESOLUTION	Linear codes at 3 mils; 2D codes at 5 mils
BAR CODES	UPC A, UPC E, EAN 8, EAN 13, Interleaved 2 of 5, Code 39, Code 39 Full ASCII, Codabar, Code 128, EAN 128, Code 93, MSI, PDF417, Micro PDF, DataMatrix, QR, GS1 Databar, Aztec, Maxicode, POSTNET, PLANET, Japan Post, Australia Post, KIX Code, Royal Mail RM4SCC, USPS 4CB, UPU FICS
LASER CLASSIFICATION	CDRH/IEC Class II
LED CLASSIFICATION	IEC Class 1M
RESOLUTION	Wide VGA (752 H x 480 V pixels), 256 gray scale
IMAGE FORMATS	BMP, JPEG

CAMERA CHARACTERISTICS (WEHH 6.5 only)

RESOLUTION	3 megapixel
ILLUMINATION	User controllable flash
LENS	Auto focus



Software

DEVELOPMENT

Wavelink® Velocity (HTML5)
Windows SDK™
MCL-Collection™
Java Virtual Machine (Crème)

CONFIGURATION & MAINTENANCE

Wavelink® Avalanche® pre-licensed
Avalanche Remote Control™
Wavelink® SecurePlus™
Datalogic Firmware Utility
Datalogic Desktop Utility
Datalogic Configuration Utility

TERMINAL EMULATION

Wavelink® Terminal Emulation™
Wavelink® ConnectPro

APPLICATIONS

Vo-CE™ (voice recognition)
Wavelink® SpeakEasy (voice recognition)
Pal™ Application Library pre-licensed



www.adc.datalogic.com

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**The World
in Your Hand**

DATALOGIC

MOBILE



Datalogic ADC's new PDA!
Elf™ is designed with the technology and ruggedness to meet the needs of applications in Field Service, Field Sales, Delivery, Retail and Logistics.

Capitalizing on Datalogic Mobile's legendary ergonomics, the new PDA packs unprecedented features into a compact form factor built for a single-handed operation.

The rugged PDA uses Datalogic's next generation platform, providing blazing speed coupled with the latest technology for mobility, all packaged in one of the best ergonomic devices on the market.





work

PROFESSIONAL

Bringing business applications
to the field work force

RUGGED

Sealed tight and strong enough to
face any environmental challenge

VALUE

High performance at high
speed, for top efficiency

EASY & INTUITIVE

Ready to use out of the box,
zero training required

REAL TIME

Always keeps you up-to-date
on field operations

VOICE & DATA

Communication and connection at all levels

“ Every day I deliver
130 packages, filling
my truck with 18 m³,
weighing 400 Kg,
to 45 different customer
locations! ”

Field personnel must frequently communicate with dispatchers and customers by voice or text, such as with SMS or e-mail. They spend a great deal of time on the road, using navigational aids to direct them between stops and around traffic. They are constantly exposed to harsh environments, so a rugged device is paramount.

What the field

DELIVERY

Field personnel need a device that connects wirelessly through multiple media including PAN, WLAN, and WWAN. They need a single device that combines cellular voice communications with computational tasks and data connectivity. Location data for improving productivity and documenting proof of delivery is required. WEHH 6.5 is a critical requirement for field service personnel. It provides users easy access to PIM data, MS Office applications, and a certified platform for application compatibility.



**“ I was rerouted to
address three customer
emergencies for failed
equipment between
my regular service
calls today! ”**

workforce wants



REPAIR



“ This week we had 83 in-store promotions, set up 45 end caps and executed inventories in each food category ”

In-Store

Retailers require a device that is small enough and light enough to carry continuously on the floor. The device needs high quality voice communications capability which exceeds the use of two-way radios in order to be an effective substitute for that solution. The device must read 1D and 2D bar codes (including GS1 stacked codes) quickly and have an ergonomic design which minimizes physical stress on the user during extended scanning activities. The device must be capable of communicating wirelessly while complying with security directives. The interface for all computing needs must be simple and robust to minimize training requirements.

What retail associates

RETAIL

Store Management

Managers need a device that provides many features also provided by a desktop solution so they can spend more time on the store floor. They need to be able to track the success of ongoing promotions in the store, inventory reports, pricing, shelf management, cashier override, employee scheduling and e-mail. They must also be able to perform all the functions of a sales associate, including inventory and sales operations, while having access to their PIM applications and high quality voice communications (both VoIP and cellular).



Who you are defines what you need

want

	Field Sales	Field Service	Direct Store Delivery	Retail Manager	Retail Sales Associate
Compact size	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Ergonomics	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Handle	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
QWERTY	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
1D Bar codes	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
2D Bar codes	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Color Camera	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
WWAN - High Speed Data	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
WWAN - Cellular Voice	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
WLAN - Secure Data Transfer	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
WLAN - Voice Over IP	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
WPAN - Headset	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
GPS	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
WEHH 6.5	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
MS Office Mobile (WEHH 6.5 only)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
CE 6.0	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>



Boost your business with

A new concept from Datalogic, Power³ evolves from extensive research into the core needs of all enterprise stakeholders. Three main pillars drive this concept: C³ = real-time technologies; F³ = ergonomics and rugged construction; D³ = easy and intuitive tools. Datalogic's next generation products maximize each of these principles to deliver the most cost effective solution available on the market. **Power cubed!**

Real Time Voice & Data

C³

Capture Based on a full set of options, the Elf™ PDA is able to serve any kind of requirement: 1D laser for applications where speed is essential and 2D imager where much information must be contained in a single code. The Elf™ PDA is equipped with Datalogic's patented Green Spot technology for good-read feedback. To complete the offer, each WEHH 6.5 model is outfitted with an autofocus 3MPixel camera with flash.

Compute Latest architecture available to boost your business. WEHH 6.5 is perfect for application portability, and 'finger/touch' usable thanks to the big icons. All the standard tools such as Outlook, Word and Excel are included. Optionally, CE 6.0 provides legacy application compatibility and ¼ VGA support. XScale™ PXA310 @ 624 MHz and 256 MB RAM / 256 MB Flash helps run applications quickly and stores the largest databases.

Ergonomic & Rugged

F³

Form The Elf™ PDA includes all the experience combined by Datalogic in terms of ergonomics and usability. Easy to hold in your hand with not only a standard battery, but retains an ergonomic shape even with the high capacity battery. Weight and balance are just right to reduce user fatigue in scan intensive environments.

Function Unlike consumer devices, Datalogic's mobile computers endure every day use in a wide variety of harsh environments. The Elf™ PDA meets the rigid drop criteria of

A Micro SD Card can be used for backup of data at the end of the day or for storing large files such as pictures. The 'High Capacity' SD functionality allows storage of up to 32 GB.

Communicate Bluetooth® wireless technology provides short range wireless communications and the Enhanced Data Rate (EDR) speeds up the data transfer. Cost-effective voice and data connectivity inside the four walls uses an 802.11 a/b/g radio with the highest level of security using Cisco compatible extensions. Stay connected outside the four walls with a HSDPA UMTS (3.5G) radio. An assisted GPS (A-GPS) with Skyhook's Core Engine hybrid positioning system provides extremely fast and highly accurate positioning. USB-on-the-Go makes data transfer to and from the Elf™ PDA easy and safe. Modem and Ethernet capability is available through an option on the single cradle.

1.5 m / 5 ft with an IP64 sealing against water and dust. Offering both a large numeric or a full QWERTY keyboard layout, the Elf™ PDA is ready for any kind of application.

Feel Bright and sharp display for easy readability in a wide range of lighting conditions. Intuitive keypads that allow one-handed use and save time in application navigation. Experience a new sensation: ready-to-use out of the box with battery, power supply and USB cable all included with the base product!

Easy & Intuitive

D³

Develop Designed for ease of use. Gesturing, spanning and screen rotation are some of the new technologies that the Elf™ PDA is equipped with to take advantage of the touch screen interface. The Elf™ PDA offers the latest WEHH 6.5 platform with the Datalogic SDK and tools for integrating voice, pictures and video to create or enhance existing mobility software solutions.

Deploy Wavelink® device management tools make the Elf™ PDA a simple device to deploy and maintain. Preloaded and pre-licensed from the factory with Avalanche, Datalogic Mobile tools and the Scan-to-Configure feature, the Elf™ PDA can be up and working in less than two minutes.

Direct Remote management from a central console combined with GPS and VoIP promotes efficient deployment of resources or problem resolution while improving asset visibility.

innovative technology, times 3!



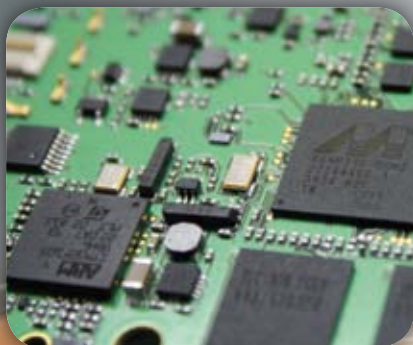
QWERTY and Numeric keyboard to meet diverse user and application needs



WEHH 6.5 or CE 6.0, the latest version on the market: easy, intuitive and no training required



USB-on-the-Go for sending and receiving data, setting automatically the behavior of the PDA



New power boosted architecture (PXA310 @ 624 MHz together with a ARM-7 coprocessor, 256 MB RAM & Flash)



Wavelink Avalanche preloaded and pre-licensed for managing all your devices in the field



Micro SD card slot supports SDHC storage cards, providing easier access to consumer channels for large memory



Built-in accelerometer for display rotation and keeps the device awake when in motion



Choose between a 1D laser scanner or 2D bar code imager to enable rapid and intuitive capture of the types of bar codes used by many enterprises. This, together with Datalogic's patented Green Spot for good-read feedback provides better user efficiency and accuracy, particularly useful in noisy and quite environments.



3MP autofocus camera with flash captures high quality pictures, to document proof of condition for a damaged shipment or a broken piece of equipment, or even a signature on a document.



The best 4 radios in wireless technology using the same form factor:

- 802.15 Bluetooth® wireless technology 2.0 with EDR for fast data transfer, reduced complexity of multiple simultaneous connections due to additional bandwidth, lower power consumption through a reduced duty cycle
- 802.11 a/b/g Cisco Certified for compatibility with the latest infrastructure and assuring the most secure network
- UMTS HSDPA covers all frequencies in the world at extremely high speeds
- Assisted GPS (A-GPS) with Skyhook's Core Engine hybrid positioning system for real-time location based applications, providing directions for drivers and instant fleet location for dispatchers

Windows Embedded HH Configuration Options

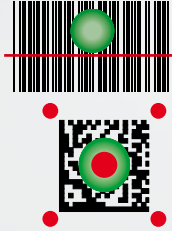
Standard Version

- Bluetooth®
- WiFi
- Camera
- VGA Display
- Vibrator
- Accelerometer
- Power Supply in the box



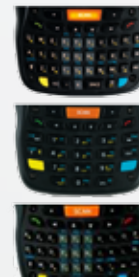
Reading Options

- 1D
- 2D



Keyboard Options

- QWERTY
- Numeric
- AZERTY



Communication Options

- UMTS
- GPS

(equipped with 5000 mAh battery)



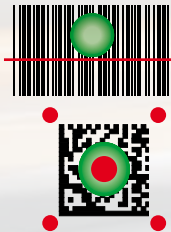
Windows CE Configuration Options

Standard Version

- Bluetooth®
- WiFi
- QVGA Display
- 3000 mAh Battery

Reading Options

- 1D
- 2D



Keyboard Options

- QWERTY
- Numeric



Accessories

- Single-slot dock for battery recharging that permits traditional data transfer through USB and RS-232 connections; slot for spare battery placed on back of device; Ethernet and modem module that expand connectivity with easy 'click' on dock base
- Four-slot dock for recharging up to eight batteries at the same time (four on the devices, four in the spare slots); Ethernet communications version available for applications requiring firmware update, or data download/upload remotely via a wired connection
- Power mobile dock (PMD) securing the device in the truck or car; keyboard and display that remain uncovered and easily accessible; loudspeaker that allows the user to hear instructions from the navigation system; PMD, including full set of connectors (USB and RS-232) for interfacing to almost anything
- Quick attach rugged handle available for facilitating scan intensive applications (such as inventory)



Single-Slot Dock



Single-Slot Dock:
Ethernet - Modem Module



Four-Slot Dock:
Ethernet - Charger



Four-Slot
Battery Charger



High Capacity
Battery



Standard
Battery



Holster



Powered
Mobile Dock



Handle



Lighter Adapter



EASY
CLICK



EASEOFCARE

Our EASEOFCARE Service Program ensures the most cost effective way to protect your investment in your chosen Datalogic device. Each of our EASEOFCARE Service Level options will lower the Total Cost of Ownership (TCO) inherent in all mobile devices by minimizing downtime and service costs, plus maximizing operator productivity. Users can also choose from 1, 3 or 5 year coverage.

EASEOFCARE LEVEL 1 **Overnight Replacement Comprehensive**

- Next business day product replacement
- Datalogic owned replacement pool
- Shipping charges paid both ways
- Incidental damage covered
- Wear and tear, component and parts failures covered
- Some accessories, like battery doors, stylus or hand straps are replaced when damaged and shipped together with the unit
- Wavelink® Avalanche™ software maintenance
- Duration: 3 or 5 years at time of product purchase or 1 year continuous coverage

EASEOFCARE LEVEL 2 **2 Day Comprehensive**

- 2 business day repair turnaround
- Shipping charges paid both ways
- Incidental damage covered
- Wear and tear, component and parts failures covered
- Some accessories, like battery doors, stylus or hand straps are replaced when damaged and shipped together with the unit
- Wavelink® Avalanche™ software maintenance
- Duration: 1, 3 or 5 years at time of product purchase or 1 year continuous coverage

EASEOFCARE LEVEL 3 **5 Day**

- 5 business day repair turnaround
- Courier charges paid both ways
- Factory defects covered
- Wavelink® Avalanche™ software maintenance
- Duration: 1, 3 or 5 years at time of product purchase or 1 year continuous or non-continuous coverage

Software

Development

Datalogic Mobile provides a suite of SDKs for C++, C#, VB.NET, Java, Wavelink Velocity (HTML5) and web development. Datalogic Mobile SDKs supplement standard development tools such as MCL Collection and MS Visual Studio 2005 and 2008 so you can build applications that take full advantage of features supported in Datalogic's mobile devices.



WEHH 6.5 or CE 6.0

The Elf™ PDA and WEHH 6.5 meet the demanding requirements of businesses that require efficiency in mobility around the clock. The reliability in being able to make decisions and act quickly in real time. Productivity soars as you stay connected to clients and colleagues with e-mail, voice mail, calendar, contacts, text messages and instant messaging (IM). The Elf™ PDA provides mobile access to the web, core business applications and Microsoft Office Mobile. WEHH 6.5 platform encompasses a range of products and technologies designed to work with existing business assets, helping your mobile employees and IT staff to achieve more with the tools they already have. Optionally, the Elf PDA also offers CE 6.0 where legacy application compatibility is required including the ability to support 1/4 VGA screen resolution.



SKYHOOK®

Skyhook

Skyhook's Core Engine is a software only location system that uses a combination of Wi-Fi, cellular and GPS signals to quickly produce a single, accurate location across all environments.

Develop, Deploy, Direct

Avalanche saves you time and money by making it easy to bring devices under management. Elf™ devices are capable of automatically finding the Avalanche host system out of the box with the Scan-To-Configure feature, eliminating the need for administrators to carry out extensive device discovery efforts. Extensive use of Profiles and Groups allows administrators to predefine configuration details that can be automatically applied to new devices meeting specified criteria rather than provisioning each device individually as it is added.



Open the box



Insert the battery



Read the codes



Product ready to use

FEATURE	Avalanche SE	Avalanche MC
Most advanced security	✓	✓
Advanced help desk tools (Remote Control)	✓	✓
Device provisioning	✓	✓
Asset management	✓	✓
User management	✓	✓
Profile-based management	✓	✓
Statistics	✓	✓
Reporting	✓	✓
Wireless infrastructure management		✓
Distributed server architecture		✓

REAL SIZE

